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United States Department of Agriculture, MONTHLY LIST OF PUBLICATIONS.


[MARCH, 1921.]

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
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A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

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 Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

 NOTE.—As long as the department's somewhat limited supply of the current numbers of Farmers' Bulletins lasts they may be obtained by all applicants free of charge. They are also for sale at 5 cents per copy unless otherwise noted.

Diseases of Sheep. By Bernard A. Gallagher, Pathological Division. Pp. 39, figs. 6. Contribution from the Bureau of Animal Industry. March, 1921. (**Farmers' Bulletin 1155.**)

This bulletin aims at giving only the more important or characteristic symptoms of infectious and noninfectious diseases, which would be of value in distinguishing one from another, and outlines methods of treatment with regard to the ease of application and use of remedies which are effective and easily procured. It does not deal with diseases caused by animal parasites nor plant poisoning. Of interest to sheep owners generally.

Growing Annual Flowering Plants. By L. C. Corbett, Horticulturalist in Charge, and F. L. Mulford, Horticulturist, Horticultural and Pomological Investigations. Pp. 83, figs. 66. Contribution from the Bureau of Plant Industry. February, 1921. (**Farmers' Bulletin 1171.**) Price, 15 cents.

Suitable for general distribution.

Raising Sheep on Temporary Pastures. By F. R. Marshall and C. G. Potts, Animal Husbandry Division. Pp. 18, figs. 7. Contribution from the Bureau of Animal Industry. March, 1921. (**Farmers' Bulletin 1181.**)

Of interest to sheep owners.

The Southern Pine Beetle, A Menace to the Pine Timber of the Southern States. By A. D. Hopkins, Forest Entomologist, in Charge of Forest Insect Investigations. Pp. 15, figs. 4. Contribution from the Bureau of Entomology. March, 1921. (**Farmers' Bulletin 1188.**)

This bulletin discusses the extent of losses sustained through the depredations of this insect, and contains essential details in methods of control.

Handling Spinach for Long-Distance Shipment. By V. W. Ridley, Investigator in Marketing Fruits and Vegetables. Pp. 15, figs. 9. Contribution from the Bureau of Markets. February, 1921. (**Farmers' Bulletin 1189.**)

Of interest to growers and shippers of this product.

How to Grow an Acre of Potatoes. By William Stuart, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 28, figs. 14. Contribution from the Bureau of Plant Industry. March, 1921. (**Farmers' Bulletin 1190.**)

Suitable for general distribution.

The Beet Leaf Beetle and Its Control. By F. H. Chittenden, Entomologist in Charge, Truck-Crop Insect Investigations. Pp. 8, figs. 8. Contribution from the Bureau of Entomology. March, 1921. (**Farmers' Bulletin 1193.**)

Of interest to the sugar-beet industry of the Rocky Mountain States and to growers of all kinds of table beets and spinach.

Operating A Home Heating Plant. By A. M. Daniels, Assistant Mechanical Engineer, Division of Agricultural Engineering. Pp. 28, figs. 8. Contribution from the Bureau of Public Roads. March, 1921. (**Farmers' Bulletin 1194.**)

In this bulletin the requirements that should be met in order to heat the home satisfactorily are discussed and advice is given concerning the selection, installation, and operation of home-heating plants.

DEPARTMENT BULLETINS—TECHNICAL.

~~As~~ The publications listed below are technical or scientific bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts.

The Use of Concrete Pipe in Irrigation. By F. W. Stanley, Senior Irrigation Engineer, with introductory paragraphs by Samuel Fortier, Chief of Irrigation Division. Pp. 54, figs. 36. Contribution from the Bureau of Public Roads. Mar. 23, 1921. (**Department Bulletin 906.**) Price, 20 cents.

The purpose of this bulletin is to present to the irrigation farmers of the West information concerning pipe and pipe systems and more especially the use of concrete pipe in irrigation.

Farm Practice in Growing Field Crops in Three Sugar-Beet Districts of Colorado. By Samuel B. Nuckols, Agriculturist, Office of Sugar-Plant Investigations, and Thomas H. Summers, formerly Scientific Assistant, Office of Farm Management and Farm Economics. Pp. 52, figs. 41. Joint contribution from the Bureau of Plant Industry, and the Office of Farm Management and Farm Economics, Mar. 11, 1921. (**Department Bulletin 917.**) Price, 20 cents.

Black Walnut, Its Growth and Management. By F. S. Baker, Forest Examiner. Pp. 43, pls. 7, figs. 4. Contribution from the Forest Service. (**Professional Paper.**) Mar. 8, 1921. (**Department Bulletin 933.**) Price, 20 cents.

This bulletin treats of the importance of the black walnut, its distribution and supply, and describes methods of planting and establishing walnut plantations.

The Distribution of Northwestern Boxed Apples. By C. W. Kitchen, Specialist in Market News, Fruits, and Vegetables; E. M. Seifert, jr., Assistant in Market Surveys, and Mary B. Hall, clerk. Pp. 27, figs. 11. Contribution from the Bureau of Markets. Mar. 14, 1921. (**Department Bulletin 935.**) Price, 15 cents.

Of interest to commercial growers and shippers of fruit.

MISCELLANEOUS.

Developing An American Utility Horse. Pp. 22, figs. 17. Contribution from the Bureau of Animal Industry. March, 1921. (**Department Circular 153.**) Price, 10 cents.

Influence of Winter Rations on the Growth of Steers on Pasture. By E. W. Sheets, Animal Husbandry Division. Pp. 10, figs. 4. Contribution from the Bureau of Animal Industry. March, 1921. (**Department Circular 166.**) Price, 5 cents.

Annual Report of the Governor of Alaska on the Alaska Game Law, 1920. Pp. 18. Contribution from the Bureau of Biological Survey. March 16, 1921. (**Department Circular 168.**) Price, 5 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 20, No. 9, Feb. 1, 1921. Contents: Another Conidial Schlerospora of Philippine Maize. (wq. G-217). By William H. Weston, jr. Onion Smudge. (wr. G-218) By J. C. Walker. Variations in *Colletotrichum gloeosporioides*. (ws. Calif.-28). By O. F. Burgher. Pp. 669-736, pls. 11, figs. 13. Price 25 cents.

Same. Vol. 20, No. 10, Feb. 15, 1921. Contents: A Transmissible Mosaic Disease of Lettuce. (wt. G-219). By Ivan C. Jagger. Leconte's Sawfly, and Enemy of Young Pines. (wl. K-91). By William Middleton. Amylase of *Rhizopus tricti* with a consideration of Its Secretion and Action. (wu. G-220). By L. L. Harter. A Comparative Study of the Composition of the Sunflower and Corn Plants at Different Stages of Growth. (wv. A-96). By R. H. Shaw and P. A. Wright. Pp. 737-793, pls. 6, figs. 3. Price, 20 cents.

Same. Vol. 20, No. 11, Mar. 1, 1921. Contents: Evaluation of Climatic Temperature Efficiency for the Ripening Processes in Sweetcorn. (wx. Md.-3.) By Charles O. Appleman and S. V. Eaton. Some Lepidoptera Likely to Be Confused with the Pink Bollworm. (wy. K-92.) By Carl Heinrich. Biology of the Smartweed Borer, *Pyrausta ainsliei* Heinrich. (wz. K-93.) By George G. Ainslie and W. B. Cartwright. Effect of X-Rays on Trichinae. (ww. A-57.) By Benjamin Schwartz. Relation of the Calcium Content of Some Kansas Soils to the Soil Reaction as Determined by the Electrometric Titration. (xa. Kans.-23.) By C. O. Swanson, W. L. Latshaw, and E. L. Tague. Green Feed Versus Antiseptics as a Preventive of Intestinal Disorders of Growing Chicks. (xc. Ind.-8.) By A. G. Philips, R. H. Carr, and D. C. Kennard. Comparative Utilization of the Mineral Constituents in the Cotyledons of Bean Seedlings Grown in Soil and in Distilled Water. (xd. Ky.-10.) By G. Davis Buckner. Sunflower Silage Digestion Experiment with Cattle and Sheep. (xe. Idaho-5.) By Ray E. Neidig, Robert C. Snyder, and C. W. Hickman. Pp. 795-888, pls. 16, fig. 1. Price, 20 cents.

NOTE.—Volumes 1 to 4 of the *Journal of Agricultural Research* were published monthly, volumes 5 to 16 weekly, and volume 17 monthly. Beginning with volume 18, the issue is semimonthly. The *Journal* is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$1.50 per year for domestic circulation and \$2 for foreign circulation.

Experiment Station Record. Vol. 44, No. 3, Abstract Number. Mar. 21, 1921. E. W. Allen, Ph. D., Editor. Pp. 201-300. Price, 15 cents.

NOTE.—The *Record* is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at \$1 a volume.

The Monthly Crop Reporter. Vol. 7, No. 3, March, 1921. Pp. 25-36. (Bureau of Crop Estimates.) Price, 25 cents a year.

Contains data relating to agriculture, including estimates of acreage, conditions, yields, prices, and value of crops and live stock.

ANNOUNCEMENT.—Because of the small fund available for printing, it has been found necessary to drop from the mailing list of the *Monthly Crop Reporter* all names of persons who are not actively cooperating with the United States Department of Agriculture. Persons whose names are dropped may subscribe for this publication through the Superintendent of Documents, Washington, D. C., at the domestic rate of 25 cents per year, and 40 cents per year to foreign address, payable only by postal money order or cash. No checks accepted.

The Market Reporter. Vol. 3, Nos. 10-13, inclusive, March, 1921. (Bureau of Markets.) For free distribution to applicants who show the need of it.


Same. Index to Vol. 2, July-December, 1920.

The *Market Reporter* is the official marketing publication of the United States Department of Agriculture. It contains general, current, and statistical marketing information for important classes of agricultural products, both staple and perishable, which is of general interest and of permanent value alike to producers, dealers, and consumers.

Weekly News Letter.

Contains a weekly summary in popular form of the more important practical discoveries and recommendations of all bureaus of the department. Free list confined to departmental employees, official cooperators, and the press. May be purchased from the Superintendent of Documents, Government Printing Office, for 50 cents a year.


SOIL SURVEYS.

 All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Madison County, Georgia. By David D. Long, of the Georgia State College of Agriculture. Pp. 32, fig. 1, 1 map. (From *F. O. Soils*, 1918.) Price, 15 cents.

Soil Survey of Lake County, Indiana. By T. M. Bushnell, of the U. S. Department of Agriculture, in Charge, and Wendell Barrett, of the State of Indiana Department of Geology. Pp. 48, fig. 1, map. (From *F. O. Soils*, 1917.) Price, 15 cents.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

 These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Biological Survey No. 38. Pp. 3. Mar. 1, 1921. Price, 5 cents.

Bureau of Chemistry. Supplement 99. (N. J. 8401-8450.) Pp. 267-296. Mar. 10, 1921. Price, 10 cents.


Same. Supplement 100. (N. J. 8451-8500.) Pp. 297-328. Mar. 11, 1921. Price, 10 cents.

Same. Supplement 101. (N. J. 8501-8550.) Pp. 1-27. Mar. 12, 1921. Price, 10 cents.

Federal Horticultural Board No. 69. Pp. 113-150, August-December, 1920, with contents. Mar. 19, 1921. Price, 5 cents.

Bureau of Plant Industry No. 4. Pp. 2. Mar. 17, 1921. Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

 Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. Vol. 48, No. 12. December, 1920. Mar. 10, 1921. Pp. 687-745, figs. 19, charts 15. Price, 25 cents a copy, \$2.50 a year. Payable to the Superintendent of Documents.

Special articles: Atmospheric environment and health. By Leonard Hill. Note in regard to indoor and outdoor humidity. By John R. Weeks. Note in regard to the primary cause of colds. By John R. Weeks. Climate and health, with special reference to the United States. By R. DeC. Ward. Comparison of temperature and humidity during 1920 with the mean, and their relation to comfort, at Anacosta, Mont. By C. D. Demond. The making of upper-air pressure maps from observed wind velocities. By C. L. Meisinger. The weather factor in aeronautics. By C. L. Meisinger.

National Weather and Crop and Snow and Ice Bulletin. Nos. 9, 10, 11, 12, 13, March, 1921, reporting weather and crop conditions throughout the United States. Issued weekly. Price, 25 cents a year.

NOTE.—This bulletin is furnished free of charge to public and educational institutions, libraries, newspapers, cooperative observers, weather correspondents, and to those who will post or display it for the general benefit of the public. To all others the price is 25 cents per year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

JOHN L. COBBS, JR.,
 Chief, Division of Publications.